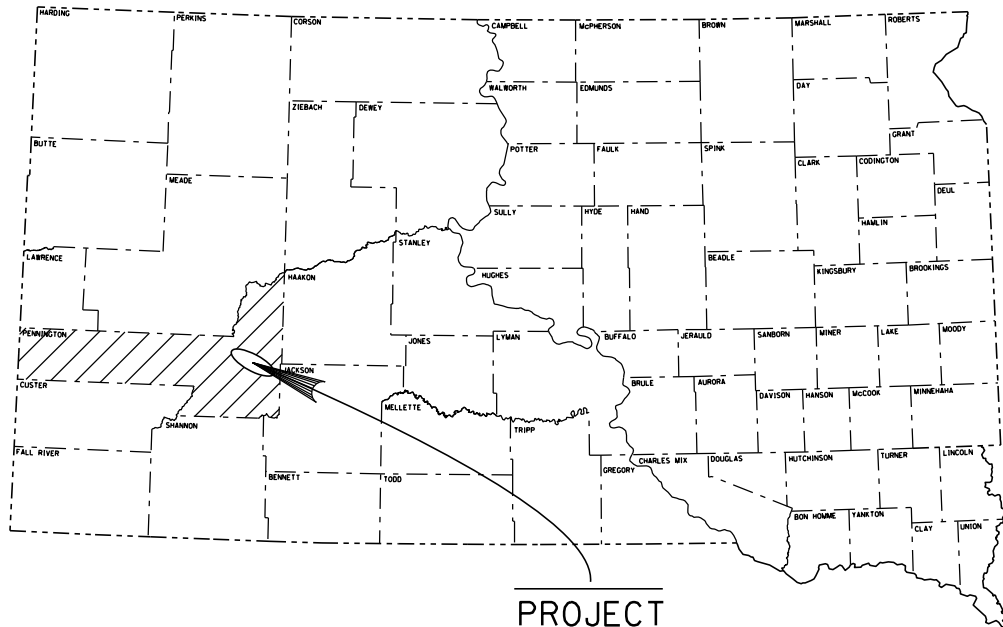


PLOT SCALE - 1:7920

PLOTTED FROM - TRP818387



PROJECT

STATE OF SOUTH DAKOTA
DEPARTMENT OF TRANSPORTATION
PLANS FOR PROPOSED

PROJECT IM 0902(148)111 EBL
INTERSTATE 90
PENNINGTON COUNTY

REMOVE and REPLACE PCC PAVEMENT

PCN 021B

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	IM 0902(148)111	1	126

Plotting Date: 08/24/2012

INDEX OF SECTIONS

- Section A: Estimate of Quantities
- Section C: Traffic Control Plans
- Section D: Erosion And Sediment Control Plans
- Section F: Surfacing Plans
- Section M: Pavement Marking Plans
- Section S: Permanent Signing Plans

Begin IM 0902(148)111
MRM 111.26 +0.411 (WB Lanes)
Sta. 509+00.38 EBL

DESIGN DESIGNATION

ADT (2011)	2712
ADT (2031)	3133
DHV	513.7
D	100
T DHV	10.8
T ADT	23.6
V	75

STORM WATER PERMIT

Major Receiving Body of Water:

Cottonwood Creek & it's tributaries
Tributary to Bloom Dam
Tributaries to Whitewater Creek

Area Disturbed - 43 Acres

Total Project Area - 232 Acres

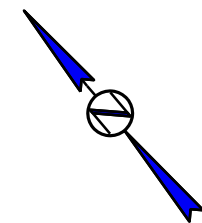
Approx. Lat +43.9871/Long -102.2254

Str. # 52-925-365
I-90 EB Ramp
MRM 112.61

Equation:
Sta. a 54+93.50 Bk =
Sta. b 55+86.54 Ah

Str. # 52-954-400

Str. # 52-A00-419



End IM 0902(148)111
MRM 122.22 +0.58 (WB Lanes)
Sta. 571+59.50 EBL

Equation:
Sta. b 112+54.97 Bk =
Sta. c 112+55.83 Ah

Str. # 52-926-366
SD14 EBL
MRM 112.64

Equation:
Sta. c 316+70.23 Bk =
Sta. d 315+12.82 Ah

Str. # 52-953-400
MRM 116.94

Str. # 52-A00-420
MRM 121.98

Equation:
Sta. 529+26.56 Bk =
Sta. a 0+00 Ah

SCALE
LAYOUT, 3/4 INCH = 1 MILE

LENGTH	59249.19 FEET	11.221 MILES
EXCEPTIONS	428.56 FEET	0.081 MILES
NET	58820.63 FEET	11.140 MILES

3

PLOT NAME - 1

FILE - U:\MS\PRJ\PEN\021B\TITLE.DGN

SECTION C - TRAFFIC CONTROL

Bid Item Number	Item	Quantity	Unit
110E1400	Remove Pavement Marking, 4" or Equivalent	5,250	Ft
634E0010	Flagging	2,000	Hour
634E0100	Traffic Control	6,048	Unit
634E0120	Traffic Control, Miscellaneous	Lump Sum	LS
634E0330	Raised Pavement Markers	136,524	Ft
634E0380	Tubular Marker	971	Each
634E0420	Type C Advance Warning Arrow Panel	2	Each
634E0525	Linear Delineation System Panel, Barrier Mounted	35	Each
634E0640	Temporary Pavement Marking	137,468	Ft
634E1215	Contractor Furnished Portable Changeable Message Sign	2	Each

SECTION D - EROSION AND SEDIMENT CONTROL

Bid Item Number	Item	Quantity	Unit
110E1690	Remove Sediment	5.0	CuYd
110E1700	Remove Silt Fence	750	Ft
120E9000	Pit Run Material	120.0	Ton
230E0100	Remove and Replace Topsoil	Lump Sum	LS
730E0251	Special Permanent Seed Mixture 1	1,118	Lb
732E0100	Mulching	86.0	Ton
734E0154	12" Diameter Erosion Control Wattle	2,000	Ft
734E0165	Remove and Reset Erosion Control Wattle	1,000	Ft
734E0604	High Flow Silt Fence	3,000	Ft
734E0610	Mucking Silt Fence	208	CuYd
734E0620	Repair Silt Fence	750	Ft
734E5010	Sweeping	20	Hour
831E0300	MSE Geotextile Fabric	190	SqYd
900E1300	Granular Material for Construction Entrance	120.0	Ton

SECTION F – SURFACING – ALTERNATE A

Bid Item Number	Item	Quantity	Unit
320E0004	PG 58-28 Asphalt Binder	660.7	Ton
320E1070	Class HR Asphalt Concrete	16,371.3	Ton

SECTION F – SURFACING – ALTERNATE B

Bid Item Number	Item	Quantity	Unit
320E0004	PG 58-28 Asphalt Binder	592.6	Ton
320E1070	Class HR Asphalt Concrete	16,826.0	Ton

SPECIFICATIONS

Standard Specifications for Roads & Bridges, 2004 Edition and Required Provisions, Supplemental Specifications and/or Special Provisions as included in the Proposal.

SECTION F - SURFACING

Bid Item Number	Item	Quantity	Unit
004E0050	Remove Traffic Diversion(s)	Lump Sum	LS
009E0010	Mobilization	Lump Sum	LS
009E3230	Grade Staking	27,054	Mile
009E3240	Graded Centerline Staking	12,873	Mile
009E3250	Miscellaneous Staking	14,353	Mile
009E3280	Slope Staking	3,131	Mile
009E3300	Three Man Survey Crew	40.0	Hour
009E3320	Checker	Lump Sum	LS
110E0510	Remove Pipe End Section	11	Each
110E0655	Remove Interim Crossover Closure	224	Ft
110E0700	Remove 3 Cable Guardrail	1,028	Ft
110E1100	Remove Concrete Pavement	157,225.0	SqYd
110E6000	Remove 3 Cable Guardrail for Reset	508	Ft
110E6010	Remove 3 Cable Guardrail Anchor Assembly for Reset	4	Each
110E6230	Remove W Beam Guardrail for Reset	600.0	Ft
110E6260	Remove W Beam Guardrail Breakaway Cable Terminal for Reset	2	Each
110E6270	Remove W Beam Guardrail Flared End Terminal for Reset	2	Each
110E7020	Remove Interim Crossover Closure for Reset	160	Ft
120E0010	Unclassified Excavation	187,675	CuYd
120E0100	Unclassified Excavation, Digouts	50	CuYd
120E0300	Borrow Unclassified Excavation	3,356	CuYd
120E0400	Select Subgrade Topping	112,543	CuYd
120E2000	Undercutting	55,761	CuYd
120E6100	Water for Embankment	43.4	MGal
120E6200	Water for Granular Material	2,255.3	MGal
210E2000	Shoulder Shaping	20.800	Mile
250E0010	Incidental Work	Lump Sum	LS
260E1030	Base Course, Salvaged	37,924.3	Ton
260E2030	Gravel Cushion, Salvaged	51,955.7	Ton
260E2060	Gravel Cushion, Modified	64,686.7	Ton
260E6000	Granular Material, Furnish	44,940.0	Ton
270E0020	Salvage and Stockpile Asphalt Mix Material	46,690.0	Ton
270E0220	Blend and Stockpile Granular Material	89,880.0	Ton
320E3000	Compaction Sample	3	Each
320E5010	Saw and Seal Shoulder Joint	109,828	Ft
320E7016	Grind 16" Rumble Strip in Asphalt Concrete	11.1	Mile
330E0010	MC-70 Asphalt for Prime	116.7	Ton
330E0100	SS-1h or CSS-1h Asphalt for Tack	19.2	Ton
330E0210	SS-1h or CSS-1h Asphalt for Flush Seal	17.9	Ton
* 330E2000	Sand for Flush Seal	74.6	Ton
332E0010	Cold Milling Asphalt Concrete	34,796	SqYd
380E0100	10.5" Nonreinforced PCC Pavement	185,868.5	SqYd
380E6000	Dowel Bar	76,846	Each
380E6110	Insert Steel Bar in PCC Pavement	26	Each
410E2600	Membrane Sealant Expansion Joint	167.6	Ft
450E2200	24" RCP Sloped End, Furnish	8	Each
450E2201	24" RCP Sloped End, Install	8	Each
450E2304	18" RCP Safety End, Furnish	3	Each
450E2307	18" RCP Safety End, Install	3	Each
600E0300	Type III Field Laboratory	1	Each
629E0110	NCHRP 350 Test Level 3 High Tension Cable Guardrail	611	Ft
629E0200	Reset 3 Cable Guardrail	508	Ft
629E0290	NCHRP 350 Test Level 3 High Tension Cable Guardrail Anchor Assembly	2	Each
629E0410	Reset 3 Cable Guardrail Anchor Assembly	4	Each
629E1107	High Tension Cable Guardrail Post	50	Each
* 629E8000	Spreader Bar	1	Each
629E9000	Crossover Closure	224	Ft
629E9060	Reset Interim Crossover Closure	160	Ft

INDEX OF SHEETS

A1 Estimate of Quantities for Sections C, D, F, M and S

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	IM 0902(148)111	A1	A1

Revised: 09-12-2012 LLA

SECTION F – SURFACING – CONTINUED

Bid Item Number	Item	Quantity	Unit
630E2100	Beam Guardrail Post	104	Each
630E5140	Reset W Beam Guardrail with Wood Posts	600.0	Ft
630E5180	Reset W Beam Guardrail Breakaway Cable Terminal	2	Each
630E5207	Reset W Beam Guardrail Flared End Terminal	2	Each
634E0700	Traffic Control Movable Concrete Barrier	71	Each
634E0750	Temporary Concrete Barrier End Protection	4	Each
634E0760	Temporary Concrete Barrier End Protection Module Set or Repair Kit	2	Each
680E0010	2' Deep Edge Drain	112,285	Ft
680E0012	4' to 6' Deep Edge Drain	5,900	Ft
680E0015	Edge Drain Outlet	237	Each
680E0100	Cutoff Drain	2	Each
680E2010	Precast Concrete Headwall for Drain	237	Each
900E5840	Permanent Vehicle Classification System	1	Each

* - Denotes Non-Participating

SECTION M - PAVEMENT MARKING

Bid Item Number	Item	Quantity	Unit
633E0010	Cold Applied Plastic Pavement Marking, 4"	1,250	Ft
633E0020	Cold Applied Plastic Pavement Marking, 8"	288	Ft
633E0025	Cold Applied Plastic Pavement Marking, 12"	4,800	Ft
633E1010	State Furnished Epoxy Pavement Marking Paint, White	145,200	Ft
633E1015	State Furnished Epoxy Pavement Marking Paint, Yellow	108,900	Ft
633E1100	Epoxy Pavement Marking Paint, 4" White	12,616	Ft
633E1105	Epoxy Pavement Marking Paint, 4" Yellow	16,632	Ft
633E5000	Grooving for Cold Applied Plastic Pavement Marking, 4"	1,250	Ft
633E5005	Grooving for Cold Applied Plastic Pavement Marking, 8"	288	Ft
633E5010	Grooving for Cold Applied Plastic Pavement Marking, 12"	4,800	Ft
633E5050	Surface Preparation for Pavement Marking	253,964	Ft
633E5100	Grooving for Durable Pavement Marking, 4"	29,384	Ft

SECTION S - PERMANENT SIGNING

Bid Item Number	Item	Quantity	Unit
110E5010	Salvage Delineator	276	Each
110E5020	Salvage Traffic Sign	8	Each
632E1320	2.0"x2.0" Perforated Tube Post	16.0	Ft
632E1340	2.5"x2.5" Perforated Tube Post	114.0	Ft
632E2000	4"x4" Amber Delineator with 1.12 Lb/Ft Post	21	Each
632E2004	4"x8" Amber Delineator with 1.12 Lb/Ft Post	15	Each
632E2008	4" Tubular Amber Delineator with 1.12 Lb/Ft Post	20	Each
632E2020	4"x4" White Delineator with 1.12 Lb/Ft Post	219	Each
632E2024	4"x8" White Delineator with 1.12 Lb/Ft Post	89	Each
632E2028	4" Tubular White Delineator with 1.12 Lb/Ft Post	20	Each
632E2220	Guardrail Delineator	40	Each
632E2520	Type 2 Object Marker	26	Each
632E3203	Flat Aluminum Sign, Nonremovable Copy High Intensity	33.3	SqFt
632E3520	Remove, Salvage, Relocate, and Reset Traffic Sign	19	Each